



CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
May 02, 2013 10:00

This data report discusses real-time air monitoring data collected between 5/01/2013 07:00 and 5/02/2013 07:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for volatile organic compounds (VOCs) and ammonia (NH₃), using remote-telemetry RAESystems® AreaRAEs.

Tables 1 summarizes data for AreaRAE instruments. Site maps and charts are available as attachments.

Table 1
Stationary AreaRAE Monitoring Stations Data Logged
5/01/2013 07:00 to 05/02/2013 07:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5722	0	NA	< 1 ppm
	VOC	5722	0	NA	< 0.1 ppm
AR14	NH3	5651	0	NA	< 1 ppm
	VOC	5651	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	NH3	5654	0	NA	< 1 ppm
	VOC	5654	0	NA	< 0.1 ppm
AR17	NH3	5723	0	NA	< 1 ppm
	VOC	5723	0	NA	< 0.1 ppm
AR18	NH3	5718	0	NA	< 1 ppm
	VOC	5718	0	NA	< 0.1 ppm

¹The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QA/QC as of this time.



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Appendix

Air Monitoring Zone Classifications¹ May 02, 2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

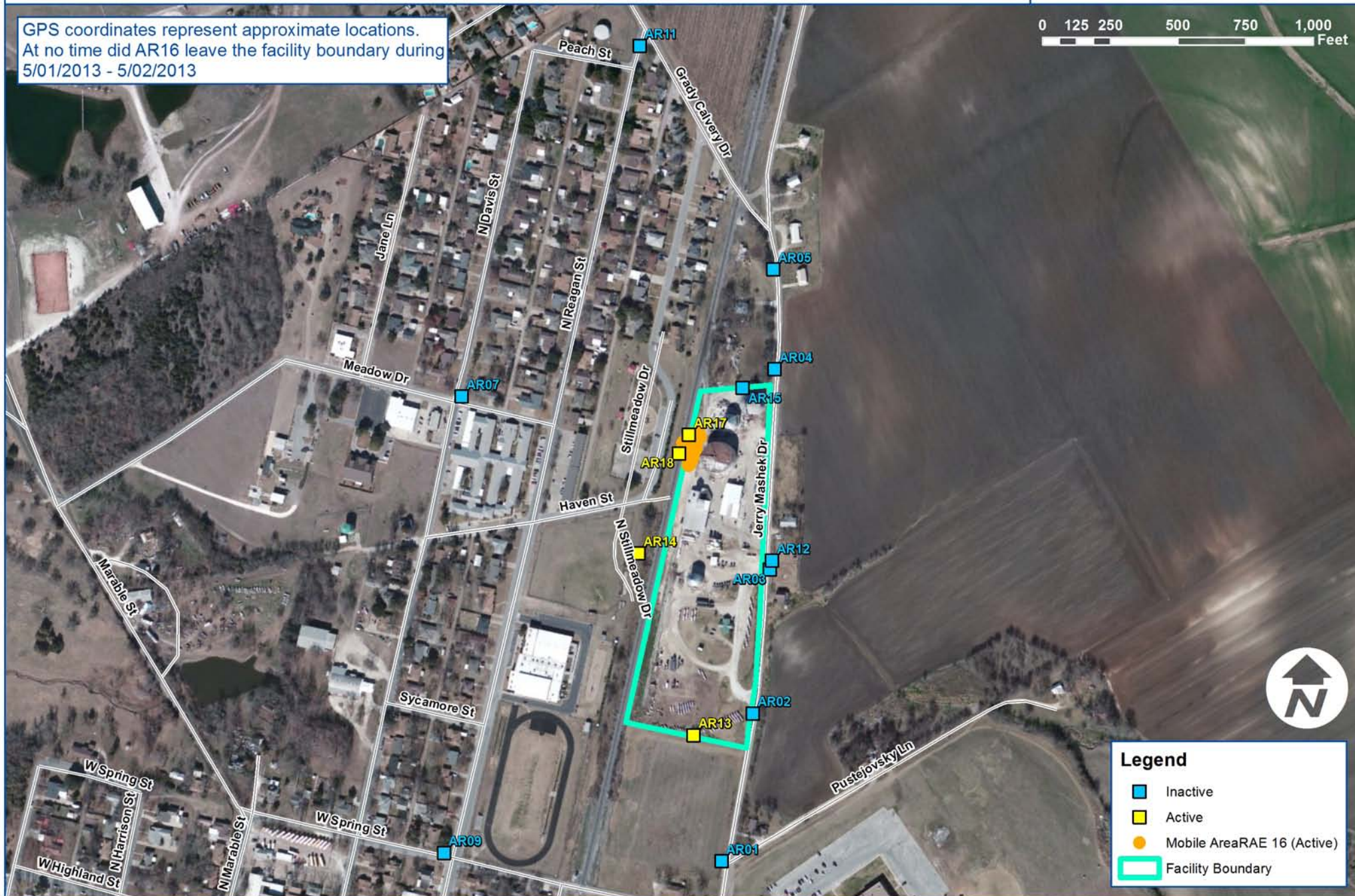


AreaRAE Monitoring Station Locations 5/02/2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

GPS coordinates represent approximate locations.
At no time did AR16 leave the facility boundary during
5/01/2013 - 5/02/2013

0 125 250 500 750 1,000 Feet



Legend

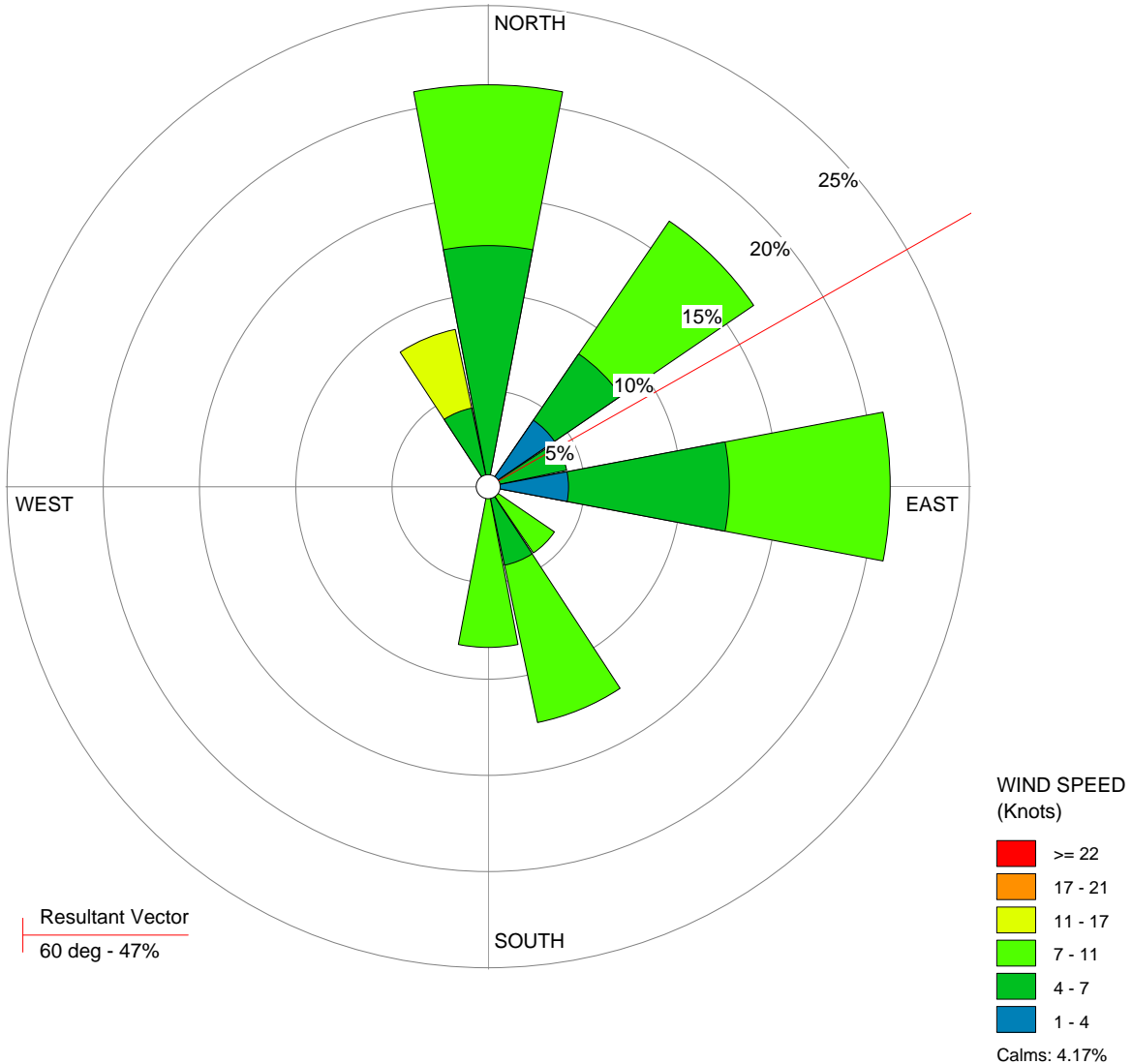
- Inactive
- Active
- Mobile AreaRAE 16 (Active)
- Facility Boundary

WIND ROSE PLOT:

Wind Speed and Direction 5/01/2013 07:00 to 5/02/2013 7:00
West, Tx

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Jason Callahan



CALM WINDS:

4.17%

AVG. WIND SPEED:

7.00 Knots

PROJECT NO.:

40442 - OMI